

Spokane Community College
Student Learning Outcomes



Problem Solving Ability
5-Point Scoring Scale

Students will successfully employ problem-solving strategies in order to solve a variety of different problems.

Percent scale can be determined by individual instructors or departments.

- Criteria
- 5 – excellent
 - 4 – very good
 - 3 – average
 - 2 – needs improvement
 - 1 – unable to perform skill

Descriptors	Actions	5	4	3	2	1	Comments
Level of Knowledge and understanding	Student knows and understands problem solving.	Solution and all relevant work is correct; or there is a mistake due to some minor computational or copying error.	Generally correct; however, from the information provided it is not completely clear how the student arrived at this solution.	Generally correct; however there is no information showing how the student arrived at this response/solution.	Understands some concepts relevant to the problem task.	It's a blank.	
Selection and implementation of appropriate procedures and/or strategies	Student selects and implements concepts and procedures/ strategies to problem solve.	Student selects relevant concepts or procedures/ strategies needed to solve this problem. Student considers all constraints of the problem situation.	There is evidence the student has a misconception or has failed to consider a relevant concept needed to solve the problem correctly. The student fails to consider a constraint of the problem situation. The student has	There is evidence that the student has several misconceptions or has failed to consider several relevant concepts needed to solve the problem correctly. Student fails to consider several constraints of the problem situation. Student has also considered several	Student selects totally inappropriate procedure/ strategy. Student did not consider a constraint or variable of the problem situation. Student understands	Only repeats information in the problem task. An incorrect solution is given and no other information is shown.	

			considered an irrelevant variable or failed to consider a relevant variable.	irrelevant variables or failed to consider several relevant variables. Student did not carry the procedures/strategies far enough to reach a solution.	some concepts relevant to the problem task.		
Accuracy of the solution obtained	Student solves problems accurately.	Student Selects and completes solving problem procedures, resulting in the entirely correct response/solution.	Student selects appropriate procedures to solve her problem; however the response/solution is not entirely correct.	Student selects appropriate procedure/strategies to solve this problem; however, the response/solution is not correct.	An incomplete and or incorrect response/ solution is provided evidencing an attempt to solve the problem.	Totally irrelevant to the problem task.	

Edited 06/03